Appendix 11B

Miscellaneous guidelines and instructions

This appendix contains the following attachments:

11.1A List of System Safety Engineering Techniques and References

Attachment 11.1A

References

The list below is representative of references often used by NASA and JSC that describe system safety techniques. This list is neither exhaustive nor authoritative but is intended to arbitrarily limit engineers and managers in their selection of analytical techniques.

"Digraph Analysis Assessment Report," EIC 00581, by Grumman Space Station Division (NASW-4300)

Sacks, I. J., "Digraph Matrix Analysis," *IEEE Transactions on Reliability*, Vol. R-34, No. 5, December 1985

"Failure Environment Analysis Tool," by Lockheed Engineering and Sciences Company for the Engineering Directorate, Johnson Space Center

"Guidelines for Hazard Evaluation Procedures," by Center for Chemical Process Safety, American Institute of Chemical Engineers

JSC 13830, "Payload Safety Review and Data Submittal Requirements for Payloads Using the Space Shuttle, International Space Station"

JSC 17481, "Safety Requirements Document for JSC Space Shuttle Flight Equipment"

JSC 17773, "Instruction for Preparing Hazard Analyses for JSC Ground Operations"

JPR 1700.1, "JSC Safety and Health Handbook," Chapter 2.4, "Hazard analysis"

NPR 8715.3, "NASA General Safety Program Requirements"

NSTS 22254, "Instruction for Preparation of Hazard Analyses for the Space Shuttle Program"

NUREG-0492, "Fault Tree Handbook," by the Systems and Reliability Research Office of Nuclear Regulatory Research, U.S. Nuclear Regulatory Commission